Please type a plus sign (+) inside this box	7	
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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. Attorney Docket No. UTILITY First Inventor PATENT APPLICATION TRANSMITTAL Title (Only for new nonprovisional applications under 37 CFR 1.53(b)) Express Mail Label No. **APPLICATION ELEMENTS** See MPEP chapter 600 concerning utility patent application contents. Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original, and a duplicate for fee processing) Applicant claims small entity status. See 37 CFR 1.27. (if applicable, all necessary) 3. Specification (Total Pages 31 Computer Readable Form (CRF) Х (preferred arrangement set forth below)
- Descriptive title of the invention b. Specification Sequence Listing on: - Cross Reference to Related Applications CD-ROM or CD-R (2 copies); or paper Statement Regarding Fed sponsored R & D - Reference to sequence listing, a table, Statements verifying identity of above copies C. or a computer program listing appendix - Background of the Invention **ACCOMPANYING APPLICATIONS PARTS** Summary of the Invention - Brief Description of the Drawings (if filed) 9. X Assignment Papers (cover sheet & document(s)) - Detailed Description - Claim(s) 37 CFR 3.73(b) Statement Power of 10. - Abstract of the Disclosure (when there is an assignee) 4. X Drawing(s) (35 U.S.C. 113) [Total Sheets 11 11. English Translation Document (if applicable) Information Disclosure Copies of IDS 2 5. Oath or Declaration 12. [Total Pages Statement (IDS)/PTO-1449 Citations a. | X | Newly executed (original or copy) 13. Preliminary Amendment Copy from a prior application (37 CFR 1.63(d)) Return Receipt Postcard (MPEP 503) 14. (for continuation/divisional with Box 18 completed) (Should be specifically itemized) Certified Copy of Priority Document(s) 15. DELETION OF INVENTOR(S) (if foreign priority is claimed) Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b). Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). 16. Applicant must attach form PTO/SB/35 or its equivalent. Other: 17 Application Data Sheet. See 37 CFR 1.76 18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Continuation Divisional Continuation-in-part (CIP) of prior application No.: Prior application information: Examiner Group / Art Unit: For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts. 19. CORRESPONDENCE ADDRESS Customer Number or Bar Code Label or X Correspondence address below MCKENNA LONG & ALDRIDGE LLP Name Song K. Jung 1900 K Street, N.W. Address DC Zip Code | 20006 City Washington State Country US Telephone (202) 496-7500 (202) 496-7756 Name (Print/Type) Rebecca Goldman Rudich Registration No. (Attorney/Agent) 41,786

June 30, 2003 Signature



PTO/SB/17 (01-03)
Approved for use through 04/30/2003. OMB 0651-0032
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

FEE TO ANOMITTAL	L	Complete if Known								
FEE TRANSMITTAL	Application Number Not Yet A						ssigned			
for FY 2003	Filing Date					June 30, 2003				
	First Named Inventor					Seong E. Heo				
Patent fees are subject to annual revision.	[Examiner Name				Not Yet Assigned				
Applicant claims small entity status. See 37 CFR 1.27		Group Art Unit				N/A				
TOTAL AMOUNT OF PAYMENT (\$) 1,114.00		Attorney Docket No. 9988.036.00-US								
METHOD OF PAYMENT (check all that apply)		-		FEE	CALCUL	ATION (co	ntinued)			
Credit Money										
X Crieck Card Order Other None	3. ADDITIONAL FEES									
Deposit Account	Large	Entity	Small	Entity						
Deposit Account 50-0911	Fee	Fee	Fee	Fee	•	Fee Desc	rintion			
Number	Code	(\$)	Code	(\$)		100 0000		Fee Paid		
Deposit Account McKenna Long & Aldridge LLP	1051	130	2051	65	Surcharge -	ge – late filing fee or oath				
Name The Commissioner is hereby authorized to: (check all that apply)	1052	50	2052	25		harge – late provisional filing fee or cover				
Charge fee(s) indicated below X Credit any overpayments	1053	sheet.				h annaifiaction		\vdash		
Charge any additional fee(s) during the pendency of this		130	1053		-	h specification				
application	1812	2,520	1812	2,520		•	arte reexamination			
Charge fee(s) indicated below, except for the filing fee	1804	920°	1804	920*	Examiner a	publication of ction				
to the above-identified deposit account.	1805	1,840*	1805	1,840*	Requesting Examiner a	publication of				
FEE CALCULATION	1251	110	2251	55	Extension for					
1. BASIC FILING FEE	1252	410	2252	205			second month			
Large Entity Small Entity Fee Fee Fee Fee Fee Fee Fee Fee Fee Fe	1253	930	2253	465	Extension for	or reply within	third month			
Fee Fee Fee Fee <u>Fee Description</u> Fee Paid	1254	1,450	2254	725	Extension for	or reply within	fourth month			
1001 750 2001 375 Utility filing fee 750.00	1255	1,970	2255	985		or reply within	fifth month			
1002 330 2002 165 Design filing fee	1401	320	2401	160	Notice of Ap					
1003 520 2003 260 Plant filing fee 1004 750 2004 375 Reissue filing fee	1402 1403	320 280	2402 2403	160 140	-	f in support of	r an appeal			
1004 750 2004 375 Reissue filing fee 1005 160 2005 80 Provisional filing fee	1451	1,510	1451		•	oral hearing	lic use proceeding			
' <u></u>	1452	110	2452	55		evive – unavo				
SUBTOTAL (1) (\$) 750.00	1453	1,300	2453	650	Petition to n	evive - uninte	ntional			
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	1501	1,300	2501	650	Utility issue	fee (or reissu				
Extra Fee from Claims below Fee Paid	1502	470	2502	235	Design issu	e fee				
Total Claims 38 -20** = 18 x 18.00 = 324.00	1503	630	2503	315	Plant issue	fee				
Independent 3 -3** = X = 0.00	1460	130	1460	130	Petitions to	Petitions to the Commissioner				
Multiple Dependent =	1807	50	1807	50	Processing	fee under 37	CFR 1.17(q)			
Large Entity Small Entity	1806	180	1806	180	Submission	of Informatio	n Disclosure Stmt			
Fee Fee Fee Fee Fee Description	8021	40	8021	40			ssignment per	40.00		
Code (\$) Code (\$) 1202 18 2202 9 Claims in excess of 20	1809	750	2809	375	Filing a sub	sy (times number of properties) a submission after final rejection				
1201 84 2201 42 Independent claims in excess of 3					(37 CFR 1.1 For each ad		tion to be			
1203 280 2203 140 Multiple dependent claim, if not paid	1810	750	2810	375	examined (3	For each additional invention to be examined (37CFR 1.129(b))				
1204 84 2204 42 ** Reissue independent claims over original patent	1801	750	2801	375	•	Continued E expedited ex	xamination (RCE)	 		
1205 18 2205 9 ** Reissue claims in excess of 20	1802	900	1802	900	of a design		G. A. BUOT			
and over original patent	Other fee (specify)									
SUBTOTAL (2) (\$) 324.00 **or number previously paid, if greater; For Reissues, see above	*Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 40.00									
SUBMITTED BY	Registr	ation No	. 44	706		1 i		-		
Name (Print Type) Redecca Goldman Rudich	(Attorne	y/Agent)	41	,786		 	(202) 496-7463			
Signature Abore blocked						Date	June 30, 2003			